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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/879,227	06/13/2001	Soichiro Kawakami	35.C9574 D5	4195
5514 75	590 04/08/2003			
FITZPATRICK CELLA HARPER & SCINTO			EXAMINER	
30 ROCKEFEL NEW YORK, N			CHANEY, CAROL DIANE	
			ART UNIT	PAPER NUMBER
			1745	7
			DATE MAILED: 04/08/2003	/

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	09/879,227	KAWAKAMI ET AL.
Office Action Summary	Examiner	Art Unit
	Carol Chaney	1745
The MAILING DATE of this communication apperiod for Reply		the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply ly within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTH. e, cause the application to become ABAN	y be timely filed 80) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on 13.	<u>June 2001</u> .	
2a) ☐ This action is FINAL. 2b) ☐ Th	nis action is non-final.	
3) Since this application is in condition for allow closed in accordance with the practice under		
Disposition of Claims		
4)⊠ Claim(s) <u>123-178</u> is/are pending in the application		
4a) Of the above claim(s) is/are withdra	wn from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) <u>123-178</u> are subject to restriction and	d/or election requirement.	
Application Papers		
9) The specification is objected to by the Examine		
10) ☐ The drawing(s) filed on is/are: a) ☐ acce		
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	• •
11) The proposed drawing correction filed on		approved by the Examiner.
If approved, corrected drawings are required in re	•	
12) The oath or declaration is objected to by the Ex	kaminer.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 1	19(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority document		
2. Certified copies of the priority document		
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	ıreau (PCT Rule 17.2(a)).	•
14) Acknowledgment is made of a claim for domest	·	
a) The translation of the foreign language pro	ovisional application has bee	n received.
Attachment(s)	, , ,	•
1) Notice of References Cited (PTO-892)	4) Interview Sur	mmary (PTO-413) Paper No(s).

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)

6) Other:

5) Notice of Informal Patent Application (PTO-152)

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Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

 Claims 123-158, drawn to a secondary battery which includes a film or layer associated with the negative electrode, classified in class 429, subclass 126.

II. Claims 159-178, drawn to a secondary battery which includes a layer coating the cathode, classified in class 429, subclass 209.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation, different functions, and different effects.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Should the invention of group I be chosen, an election of one of the following groups must be made:

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- 1. A battery with a lithium anode having a conductive layer associated with the anode surface. Claims 123-126, 142, 144, 146, 147, 148, 152-157, 141 and 158.
- 2. A battery with a lithium anode having a semi-conductive layer associated with the anode surface. Claims 123-126, 142, 144, 146, 147, 148, 152-157, and 150.
- 3. A battery with a lithium anode having a non-conductive metal oxide layer associated with the anode surface. Claims 123-126, 142, 144, 146, 147, 148, 152-157, and 138.
- 4. A battery with a lithium anode having an electron donating layer on the anode surface. Claims 123-126, 142, 144, 146, 147, 148, 152-157, and 127-131.
- 5. A battery with a lithium anode having a layer of a large ring compound on the anode surface. Claims 123-126, 142, 144, 146, 147, 148, 152-157, and 133, 139, 140.
- 6. A battery with a lithium anode having a layer of a fluororesin compound on the anode surface. Claims 123-126, 142, 144, 146, 147, 148, 152-157, and 134, 139, 140.
- 7. A battery with a lithium anode having a layer of a compound with an ether linkage on the anode surface. Claims 123-126, 142, 144, 146, 147, 148, 152-157, and 135, 139, 140.
- 8. A battery with a lithium anode having a layer of a compound with a carbonyl group on the anode surface. Claims 123-126, 142, 144, 146, 147, 148, 152-157, and 136, 139, 140.
- 9. A battery with a lithium anode having a layer of a compound with phosphorous and nitrogen atoms double bonded on the anode surface. Claims 123-126, 142, 144, 146, 147, 148, 152-157, and 137, 139, 140.

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- 10. A battery with a zinc anode having a conductive layer associated with the anode surface. Claims 123-126, 143, 145, 146, 147, 149, 152-157, 141 and 158.
- 11. A battery with a zinc anode having a semi-conductive layer associated with the anode surface. Claims 123-126, 143, 145, 146, 147, 149, 152-157, and 150.
- 12. A battery with a zinc anode having a non-conductive metal oxide layer associated with the anode surface. Claims 123-126, 143, 145, 146, 147, 149, 152-157, and 138.
- 13. A battery with a zinc anode having an electron donating layer on the anode surface. Claims 123-126, 143, 145, 146, 147, 149, 152-157, and 127-131.
- 14. A battery with a zinc anode having a layer of a large ring compound on the anode surface. Claims 123-126, 143, 145, 146, 147, 149, 152-157, and 133, 139, 140.
- 15. A battery with a zinc anode having a layer of a fluororesin compound on the anode surface. Claims 123-126, 143, 145, 146, 147, 149, 152-157, and 134, 139, 140.
- 16. A battery with a zinc anode having a layer of a compound with an ether linkage on the anode surface. Claims 123-126, 143, 145, 146, 147, 149, 152-157, and 135, 139, 140.
- 17. A battery with a zinc anode having a layer of a compound with a carbonyl group on the anode surface. Claims 123-126, 143, 144, 146, 147, 149, 152-157, and 136, 139, 140.

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18. A battery with a zinc anode having a layer of a compound with phosphorous and nitrogen atoms double bonded on the anode surface. Claims 123-126, 143, 145, 146, 147, 149, 152-157, and 137, 139, 140.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 123-126, 146, 147, 152-157 are generic.

If the invention of group II is elected, an election of one of the following groups must be made:

- 19. A secondary battery with a lithium anode and a layer of a large ring compound associated with the cathode. (Claims 159, 177, and 160, 161, and 176.)
- 20. A secondary battery with a lithium anode and a layer of a polymer of a derivative of an aromatic hydrocarbon associated with the cathode. (Claims 159, 177, and 162, 163, 176.)
- 21. A secondary battery with a lithium anode and a layer of a fluororesin associated with the cathode. (Claims 159, 177, and 164, 165, 176.)
- 22. A secondary battery with a lithium anode and an insulating layer of a silicone resin associated with the cathode. (Claims 159, 177, and 166, 176.)
- 23. A secondary battery with a lithium anode and an insulating layer of an organic titanium polymer associated with the cathode. (Claims 159, 177 and 167, 176.)

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- 24. A secondary battery with a lithium anode, and a layer of an insulating polymer of phosphorous and nitrogen associated with the cathode. (Claims 159, 177 and 168.)
- 25. A secondary battery with a lithium anode and a layer of an insulating inorganic glass associated with the cathode. (Claims 159, 177 and 169-171.)
- 26. A secondary battery with a lithium anode and an insulating carbide layer associated with the cathode. (Claims 159, 177 and 172, 176.)
- 27. A secondary battery with a lithium anode and an insulating nitride layer is associated with the cathode. (Claims 159, 177 and 173.)
- 28. A secondary battery with a lithium anode and a insulating halide layer is associated with the cathode. (Claims 159, 177 and 174, 175.)
- 29. A secondary battery with a zinc anode and a layer of a large ring compound associated with the cathode. (Claims 159, 178, and 160, 161, and 176.)
- 30. A secondary battery with a zinc anode and a layer of a polymer of a derivative of an aromatic hydrocarbon associated with the cathode. (Claims 159, 178, and 162, 163, 176.)
- 31. A secondary battery with a zinc anode and a layer of a fluororesin associated with the cathode. (Claims 159, 178, and 164, 165, 176.)
- 32. A secondary battery with a zinc anode and an insulating layer of a silicone resin associated with the cathode. (Claims 159, 178, and 166, 176.)
- 33. A secondary battery with a zinc anode and an insulating layer of an organic titanium polymer associated with the cathode. (Claims 159, 178 and 167, 176.)

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- 34. A secondary battery with a zinc anode, and a layer of an insulating polymer of phosphorous and nitrogen associated with the cathode. (Claims 159, 178 and 168.)
- 35. A secondary battery with a zinc anode and a layer of an insulating inorganic glass associated with the cathode. (Claims 159, 178 and 169-171.)
- 36. A secondary battery with a zinc anode and an insulating carbide layer associated with the cathode. (Claims 159, 178 and 172, 176.)
- 37. A secondary battery with a zinc anode and an insulating nitride layer is associated with the cathode. (Claims 159, 178 and 173.)
- 38. A secondary battery with a zinc anode and a insulating halide layer is associated with the cathode. (Claims 159, 178 and 174, 175.)

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 159 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carol Chaney whose telephone number is (703) 305-3777. The examiner can normally be reached on Mon - Fri 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 703-308-2383. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Carol Chaney Primary Examiner Art Unit 1745

CC

April 6, 2003